

ABSTRACT

To perform as high-accuracy as possible a correction for a body movement for reducing an artifact occurring in a case of creating a tomographic image from an X-ray projected image, the coordinates of the respective corresponding points are acquired as between the projected images of which the projected angles overlap each other (e.g., 0° and 360°), and a geometric transformation parameter is acquired through affine transformation or the like by using the set of the acquired coordinates. When an estimated amount of the acquired parameter is equal to or larger than a predetermined amount, the geometric transformation parameter for geometric correction is determined by using the acquired geometric transformation parameter, the geometric transformation (correction of body movement) is executed by using the determined geometric transformation parameter, and the tomographic image is created by using the corrected projected images.

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